
Sequence Listing was accepted.

If you need help call the Patent Electronic Business Center at (866) 217-9197 (toll free).

Reviewer: Durreshwar Anjum

Timestamp: [year=2009; month=12; day=1; hr=11; min=15; sec=31; ms=220;]

Validated By CRFValidator v 1.0.3

Application No: 10587326 Version No: 3.0

Input Set:

Output Set:

Started: 2009-11-25 11:58:14.556 **Finished:** 2009-11-25 11:58:18.723

Elapsed: 0 hr(s) 0 min(s) 4 sec(s) 167 ms

Total Warnings: 18
Total Errors: 0

No. of SeqIDs Defined: 88

Actual SeqID Count: 88

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      Fischer, Gunter
      Edlich, Frank
      Weiwad, Matthias
       Jarczowski, Franziska
      Kullertz, Gerhard
<120> Method for Identifying and Producing Effectors of
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<140> 10587326
<141> 2009-11-25
<150> PCT/EP05/000656
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     35
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   50 55 60
Leu Glu His Met Asp Arg Pro Phe Asp Ser Asn Tyr Phe Arg Lys Thr
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65
                              75
                                                 80
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Leu Gly Leu Leu Ser Met Arg Arg Gly Glu Leu Ala Arg Phe Leu Phe

100 105 110

Lys Pro Asn Tyr Ala Tyr Gly Thr Leu Gly Cys Pro Pro Leu Ile Pro 115 120 125

Pro Asn Thr Thr Val Leu Phe Glu Ile Glu Leu Leu Asp Phe Leu Asp 130 135 140

Gln Phe Pro Leu Gln Lys Val Leu Lys Val Ala Ala Thr Glu Arg Glu 165 170 175

Phe Gly Asn Tyr Leu Phe Arg Gln Asn Arg Phe Tyr Asp Ala Lys Val 180 185 190

Arg Tyr Lys Arg Ala Leu Leu Leu Leu Arg Arg Arg Ser Ala Pro Pro 195 200 205

Glu Glu Gln His Leu Val Glu Ala Ala Lys Leu Pro Val Leu Leu Asn 210 215 220

Leu Ser Phe Thr Tyr Leu Lys Leu Asp Arg Pro Thr Ile Ala Leu Cys 225 230 230 235

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Phe Arg Cys Gly Gln Ala Cys Leu Leu Thr Glu Tyr Gln Lys Ala 260 265 270

Arg Asp Phe Leu Val Arg Ala Gln Lys Glu Gln Pro Phe Asn His Asp 275 280 285

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Glu Ala Glu Gln Pro Gly Ala Leu Ala Arg Glu Phe Leu Ala Ala Met
        70
                  75
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Glu Pro Glu Pro Ala Pro Ala Pro Glu Glu Trp Leu Asp Ile
        85 90 95
Leu Gly Asn Gly Leu Leu Arg Lys Lys Thr Leu Val Pro Gly Pro Pro
 100 105 110
Gly Ser Ser Arg Pro Val Lys Gly Gln Val Val Thr Val His Leu Gln
   115 120 125
Thr Ser Leu Glu Asn Gly Thr Arg Val Glu Glu Pro Glu Leu Val
  130 135 140
Phe Thr Leu Gly Asp Cys Asp Val Ile Gln Ala Leu Asp Leu Ser Val
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190

180 185

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| Leu | Glu 210 | Met | Leu | Thr | Gly | Gln 215 | Glu | Arg | Val | Ala | Leu 220 | Ala | Asn | Arg | Lys |
| Arg 225 | Glu | Суз | Gly | Asn | Ala 230 | His | Tyr | Gln | Arg | Ala 235 | Asp | Phe | Val | Leu | Ala 240 |
| Ala | Asn | Ser | Tyr | Asp 245 | Leu | Ala | Ile | Lys | Ala 250 | Ile | Thr | Ser | Ser | Ala 255 | Lys |
| Val | Asp | Met | Thr 260 | Phe | Glu | Glu | Glu | Ala 265 | Gln | Leu | Leu | Gln | Leu 270 | Lys | Val |
| Lys | Суз | Leu 275 | Asn | Asn | Leu | Ala | Ala 280 | Ser | Gln | Leu | Lys | Leu 285 | Asp | His | Tyr |
| Arg | Ala 290 | Ala | Leu | Arg | Ser | Cys 295 | Ser | Leu | Val | Leu | Glu 300 | His | Gln | Pro | Asp |
| Asn 305 | Ile | Lys | Ala | Leu | Phe 310 | Arg | Lys | Gly | Lys | Val 315 | Leu | Ala | Gln | Gln | Gly 320 |
| Glu | Tyr | Ser | Glu | Ala 325 | Ile | Pro | Ile | Leu | Arg 330 | Ala | Ala | Leu | Lys | Leu 335 | Glu |
| Pro | Ser | Asn | Lys 340 | Thr | Ile | His | Ala | Glu 345 | Leu | Ser | Lys | Leu | Val 350 | Lys | Lys |
| His | Ala | Ala 355 | Gln | Arg | Ser | Thr | Glu 360 | Thr | Ala | Leu | Tyr | Arg 365 | Lys | Met | Leu |
| Gly | Asn 370 | Pro | Ser | Arg | Leu | Pro 375 | Ala | Lys | Суз | Pro | Gly 380 | Lys | Gly | Ala | Trp |
| Ser 385 | Ile | Pro | Trp | Lys | Trp 390 | Leu | Phe | Gly | Ala | Thr 395 | Ala | Val | Ala | Leu | Gly 400 |
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Val Leu Lys Ile Val Lys Arg Val Gly Asn Gly Glu Glu Thr Pro Met
    35
           40 45
Ile Gly Asp Lys Val Tyr Val His Tyr Lys Gly Lys Leu Ser Asn Gly
 50 55 60
Lys Lys Phe Asp Ser Ser His Asp Arg Asn Glu Pro Phe Val Phe Ser
         70 75
Leu Gly Lys Gly Gln Val Ile Lys Ala Trp Asp Ile Gly Val Ala Thr
       85 90 95
Met Lys Lys Gly Glu Ile Cys His Leu Leu Cys Lys Pro Glu Tyr Ala
              105
      100
                                    110
Tyr Gly Ser Ala Gly Ser Leu Pro Lys Ile Pro Ser Asn Ala Thr Leu
    115 120 125
Phe Phe Glu Ile Glu Leu Asp Phe Lys Gly Glu Asp Leu Phe Glu
        135 140
  130
Asp Gly Gly Ile Ile Arg Arg Thr Lys Arg Lys Gly Glu Gly Tyr Ser
145 150 155
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Asn Pro Asn Glu Gly Ala Thr Val Glu Ile His Leu Glu Gly Arg Cys
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190

180

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| Phe 225 | Gly | Glu | Ala | Gly | Lys 230 | Pro | Lys | Phe | Gly | Ile 235 | Glu | Pro | Asn | Ala | Glu 240 |
| Leu | Ile | Tyr | Glu | Val 245 | Thr | Leu | Lys | Ser | Phe 250 | Glu | Lys | Ala | Lys | Glu 255 | Ser |
| Trp | Glu | Met | Asp 260 | Thr | Lys | Glu | Lys | Leu 265 | Glu | Gln | Ala | Ala | Ile 270 | Val | Lys |
| Glu | Lys | Gly 275 | Thr | Val | Tyr | Phe | Lys 280 | Gly | Gly | Lys | Tyr | Met 285 | Gln | Ala | Val |
| Ile | Gln 290 | Tyr | Gly | Lys | Ile | Val 295 | Ser | Trp | Leu | Glu | Met 300 | Glu | Tyr | Gly | Leu |
| Ser 305 | Glu | Lys | Glu | Ser | Lys 310 | Ala | Ser | Glu | Ser | Phe 315 | Leu | Leu | Ala | Ala | Phe 320 |
| Leu | Asn | Leu | Ala | Met 325 | Cys | Tyr | Leu | Lys | Leu 330 | Arg | Glu | Tyr | Thr | Lys 335 | Ala |
| Val | Glu | Cys | Cys 340 | Asp | Lys | Ala | Leu | Gly 345 | Leu | Asp | Ser | Ala | Asn 350 | Glu | Lys |
| Gly | Leu | Tyr 355 | Arg | Arg | Gly | Glu | Ala 360 | Gln | Leu | Leu | Met | Asn 365 | Glu | Phe | Glu |
| Ser | Ala 370 | Lys | Gly | Asp | Phe | Glu 375 | Lys | Val | Leu | Glu | Val 380 | Asn | Pro | Gln | Asn |
| Lys 385 | Ala | Ala | Arg | Leu | Gln 390 | Ile | Ser | Met | Суз | Gln 395 | Lys | Lys | Ala | Lys | Glu 400 |
| His | Asn | Glu | Arg | Asp 405 | Arg | Arg | Ile | Tyr | Ala 410 | Asn | Met | Phe | Lys | Lys 415 | Phe |
| Ala | Glu | Gln | Asp 420 | Ala | Lys | Glu | Glu | Ala 425 | Asn | Lys | Ala | Met | Gly 430 | Lys | Lys |

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Glu Glu Lys Pro Glu Gly His Val 450 455

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Val Leu Lys Val Ile Lys Arg Glu Gly Thr Gly Thr Glu Met Pro Met 35 40 45

Ile Gly Asp Arg Val Phe Val His Tyr Thr Gly Trp Leu Leu Asp Gly 50 60

Thr Lys Phe Asp Ser Ser Leu Asp Arg Lys Asp Lys Phe Ser Phe Asp 65 70 75 80

Leu Gly Lys Gly Glu Val Ile Lys Ala Trp Asp Ile Ala Ile Ala Thr 85 90 95

Met Lys Val Gly Glu Val Cys His Ile Thr Cys Lys Pro Glu Tyr Ala 100 105 110

Tyr Gly Ser Ala Gly Ser Pro Pro Lys Ile Pro Pro Asn Ala Thr Leu 115 120 125

Val Phe Glu Val Glu Leu Phe Glu Phe Lys Gly Glu Asp Leu Thr Glu 130 135 140

Glu Glu Asp Gly Gly Ile Ile Arg Arg Ile Gln Thr Arg Gly Glu Gly
145 150 155 160

Tyr Ala Lys Pro Asn Glu Gly Ala Ile Val Glu Val Ala Leu Glu Gly
165 170 175

| Tyr | Tyr | Lys | Asp 180 | Lys | Leu | Phe | Asp | Gln 185 | Arg | Glu | Leu | Arg | Phe 190 | Glu | Ile |
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| Gln | Arg 210 | Met | Glu | Lys | Gly | Glu 215 | His | Ser | Ile | Val | Tyr 220 | Leu | Lys | Pro | Ser |
| Tyr 225 | Ala | Phe | Gly | Ser | Val 230 | Gly | Lys | Glu | Lys | Phe 235 | Gln | Ile | Pro | Pro | Asn 240 |
| Ala | Glu | Leu | Lys | Tyr 245 | Glu | Leu | His | Leu | Lys 250 | Ser | Phe | Glu | Lys | Ala 255 | Lys |
| Glu | Ser | Trp | Glu 260 | Met | Asn | Ser | Glu | Glu 265 | Lys | Leu | Glu | Gln | Ser 270 | Thr | Ile |
| Val | Lys | Glu 275 | Arg | Gly | Thr | Val | Tyr 280 | Phe | Lys | Glu | Gly | Lys 285 | Tyr | Lys | Gln |
| Ala | Leu 290 | Leu | Gln | Tyr | Lys | Lys 295 | Ile | Val | Ser | Trp | Leu 300 | Glu | Tyr | Glu | Ser |
| Ser 305 | Phe | Ser | Asn | Glu | Glu 310 | Ala | Gln | Lys | Ala | Gln 315 | Ala | Leu | Arg | Leu | Ala 320 |
| Ser | His | Leu | Asn | Leu 325 | Ala | Met | Суз | His | Leu 330 | Lys | Leu | Gln | Ala | Phe 335 | Ser |
| Ala | Ala | Ile | Glu 340 | Ser | Cys | Asn | Lys | Ala 345 | Leu | Glu | Leu | Asp | Ser 350 | Asn | Asn |
| Glu | Lys | Gly 355 | Leu | Phe | Arg | Arg | Gly 360 | Glu | Ala | His | Leu | Ala 365 | Val | Asn | Asp |
| Phe | Glu 370 | Leu | Ala | Arg | Ala | Asp 375 | Phe | Gln | Lys | Val | Leu 380 | Gln | Leu | Tyr | Pro |
| Asn 385 | Asn | Lys | Ala | Ala | Lys 390 | Thr | Gln | Leu | Ala | Val 395 | Суз | Gln | Gln | Arg | Ile 400 |

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Asp Arg Glu Gly Leu Leu Ser Met Ala Asn Ala Gly Arg Asn Thr Asn 115 120 125

Gly Ser Gln Phe Phe Ile Thr Thr Val Pro Thr Pro His Leu Asp Gly

130 135 140

Lys His Val Val Phe Gly Gln Val Ile Lys Gly Ile Gly Val Ala Arg 145 150 155 160

Ile Leu Glu Asn Val Glu Val Lys Gly Glu Lys Pro Ala Lys Leu Cys 165 170 175

Val Ile Ala Glu Cys Gly Glu Leu Lys Glu Gly Asp Asp Gly Gly Ile 180 185 190

Phe Pro Lys Asp Gly Ser Gly Asp Ser His Pro Asp Phe Pro Glu Asp 195 200 205

Ala Asp Ile Asp Leu Lys Asp Val Asp Lys Ile Leu Leu Ile Thr Glu 210 215 220

Asp Leu Lys Asn Ile Gly Asn Thr Phe Phe Lys Ser Gln Asn Trp Glu 225 230 230 235

Met Ala Ile Lys Lys Tyr Ala Glu Val Leu Arg Tyr Val Asp Ser Ser 245 250 255

Lys Ala Val Ile Glu Th